

CLAIMS

1. An inverter device (2) having two operation modes including a grid-connected operation mode where the inverter device is interconnected with a commercial power system (14), and an isolated operation mode where the inverter device is independent of said commercial power system (14) and performs an isolated operation, comprising:

an inverter unit (4) converting direct-current power received from a direct-current power supply into alternating-current power;

a control unit (8) controlling an action of said inverter device (2);

a grid-connected output terminal (11) for outputting the alternating-current power converted by said inverter unit (4),

said grid-connected output terminal (11) being a plug connectable to a commercial receptacle, commercial power from the commercial power system being supplied to the commercial receptacle; and

an isolated operation output terminal (10) provided on a path of a power supply line connecting said inverter unit (4) and said grid-connected output terminal (11), for outputting said alternating-current power,

said isolated operation output terminal (10) being a receptacle a load is connectable to, the load being supplied with said alternating-current power.

2. The inverter device according to claim 1, further comprising a switch unit (7) provided between said isolated operation output terminal (10) and said grid-connected output terminal (11) on the path of said power supply line, wherein

said control unit (8) brings said switch unit (7) into a non-conduction state when said grid-connected operation mode is terminated.

3. The inverter device according to claim 2, further comprising a manipulation

unit (9) capable of transmitting to said control unit (8) a signal for instructing a start of an operation of said inverter unit (4), wherein

in a case where said control unit (8) receives said signal from said manipulation unit (9) in said isolated operation mode, when said switch unit (7) is in the non-
5 conduction state, said control unit (8) permits the operation of said inverter unit (4).

4. The inverter device according to claim 2, further comprising a current detecting unit (21) provided between said inverter unit (4) and said isolated operation output terminal (10) on the path of said power supply line, for detecting whether or not
10 a current flows therebetween, wherein

said control unit (8) operates said inverter unit (4) for a prescribed period of time when said control unit (8) brings said switch unit (7) into the non-conduction state, and said control unit (8) continues an operation of said inverter unit (4) when said current detecting unit (21) detects that the current flows for said prescribed period of time.
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5. The inverter device according to claim 1, further comprising a housing (12) having said grid-connected output terminal (11) and said isolated operation output terminal (10) integrally provided therein, wherein

said housing (12) includes a plug accommodating unit (33) capable of
20 accommodating said grid-connected output terminal (11).

6. The inverter device according to claim 5, further comprising a manipulation unit (9) capable of transmitting to said control unit (8) a signal for instructing a start of an operation of said inverter unit (4), wherein

said plug accommodating unit (33) has a plug accommodation detecting unit (35) detecting whether or not said grid-connected output terminal (11) is
25 accommodated in the plug accommodating unit (33), and

in a case where said control unit (8) receives said signal from said manipulation

unit (9) in said isolated operation mode, when said plug accommodation detecting unit (35) detects that said grid-connected output terminal (11) is accommodated in said plug accommodating unit (33), said control unit (8) permits the operation of said inverter unit (4).

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7. The inverter device according to claim 6, further comprising a current detecting unit (21) provided between said inverter unit (4) and said isolated operation output terminal (10) on the path of said power supply line, for detecting whether or not a current flows therebetween, wherein

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said control unit (8) operates said inverter unit (4) for a prescribed period of time when said plug accommodation detecting unit (35) detects that said grid-connected output terminal (11) is accommodated in said plug accommodating unit (33), and said control unit (8) continues the operation of said inverter unit (4) when said current detecting unit (21) detects that the current flows for said prescribed period of time.